CONTENTS

Special issue: A collection of papers on liquid chromatography	
Foreword K. B. Hicks (Philadelphia, PA, U.S.A.)	vi
High-performance anion-exchange chromatography of sugars and sugar alcohols on quaternary ammonium resins under alkaline conditions T. J. Paskach, P. J. Reilly (Ames, IA, U.S.A.), HP. Lieker, and K. Thielecke (Braunschweig,	
Germany)	1
 H.p.l.c. of 4-nitrophenyl-α-malto-oligosaccharides C. Niemann, W. Saenger, R. Nuck (Berlin, F.R.G.), and B. Pfannemüller (Freiburg, 	
Germany)	15
High performance reversed-phase chromatographic mapping of 2-pyridylamino derivatives of xyloglucan oligosaccharides	
Z. El Rassi, D. Tedford, J. An, and A. Mort (Stillwater, OK, U.S.A.)	25
Selectivity control in the anion-exchange chromatographic determination of saccharides in dairy products using pulsed amperometric detection	
J. van Riel and C. Olieman (Ede, The Netherlands)	39
High-performance size-exclusion chromatography and ELISA detection of extracellular poly- saccharides from Mucorales	
G. A. de Ruiter, A. W. van der Lugt, A. G. J. Voragen and F. M. Rombouts (Wageningen, The Netherlands) and S. H. W., Notermans (Bilthoven, The Netherlands)	47
An h.p.l.c. method for determining chain-length distribution in some glycogens N. W. H. Cheetham, N. Hansawek and P. Saecou (Kensington, Australia)	59
High-performance liquid chromatography of mono- and oligo-saccharides on a graphitized carbon column	
K. Koizumi, Y. Okada, and M. Fukuda (Nishinomiya, Japan)	67
Isolation of oligogalacturonic acids in gram quantities by preparative h.p.l.c. A. Hotchkiss, Jr., K. B. Hicks, L. W. Doner and P. L. Irwin (Philadelphia, U.S.A.)	81
Intrinsic viscosity and molecular weight of pectin components	
M. L. Fishman, D. T. Gillispie, and S. M. Sondey (Philadelphia, U.S.A.) and Y. S. El-Atawy (Giza, Egypt)	91
Analysis of oligouronates by reversed-phase ion-pair h.p.l.c.: Role of the mobile phase A. Heyraud and C. Leonard (Grenoble, France)	105
Determination of furosine in biomedical samples employing an improved hydrolysis and high- performance liquid chromatographic technique	
W. T. Cefalu, A. Bell-Farrow, Z. Q. Wang, and S. Ralapati (Winston-Salem, NC, U.S.A.)	117
Characterization of five isomers of branched cyclomaltohepataose (β CD) having degree of polymer-	
ization (d.p.) = 9: Reinvestigation of three positional isomers of diglucosyl-β CD K. Koizumi, T. Tanimoto, Y. Okada, N. Nakanishi, N. Kato (Nishinomiya, Japan), Y.	
Takagi and H. Hashimata (Vakahama Janan)	127

Kinetic analysis of pectate lyases by high-performance liquid chromatography J. F. Preston III and J. D. Rice (Gainesville, FL, U.S.A.)	137
Kinetic comparisons of trimer-generating pectate and alginate lyases by reversed-phase ion-pair liquid chromatography	147
J. F. Preston III, J. D. Rice, M. C. Chow, and B. J. Brown (Gainesville, FL, U.S.A.)	147
Optimization of waveforms for pulsed amperometric detection (p.a.d.) of carbohydrates following separation by liquid chromatography W. R. LaCourse and D. C. Johnson (Ames, IA, U.S.A.)	159
High-performance anion-exchange chromatography with pulsed amperometric detection of linear and branched glucose oligosaccharides	
R. N. Ammeraal, G. A. Delgado, F. L. Tenbarge, and R. B. Friedman (Hammond, IN, U.S.A.)	179
Capillary zone electrophoresis of reducing mono- and oligo-saccharides as the borate complexes of their 3-methyl-1-phenyl-2-pyrazolin-5-one derivatives S. Honda, S. Suzuki, A. Nose, K. Yamamoto, and K. Kakehi (Higashiosaka, Japan)	193
Notes	
Chromatography of 1-deoxy-1-nitroalditols on a cation-exchange resin in the lanthanum form	
M. Petrušová, L. Petruš, and E. Lattová (Bratislave, Czechoslavakia)	199
Analyses of α-linked disaccharides of D-glucose by high-performance liquid chromatography M. Shiota (Tokyo, Japan) and S. Kobayashi (Ibaraki, Japan)	203
Separation of high-mannose isomers form yeast and mammalian sources using high-pH anion-	
exchange chromatography R. R. Townsend (San Francisco, CA, U.S.A.), P. H. Atkinson (Bronx, NY, U.S.A.), and R. B. Trimble (Albany, NY, U.S.A.)	211
Problems encountered during the extraction, purification, and chromatography of pectic fragments, and some solutions to them	
A. J. Mort, B. M. Moerschbacher, M. L. Pierce and N. O. Maness (Stillwater, OK, U.S.A.)	219
End of special issue papers	
Molecular motion in glassy water-malto-oligosaccharide (maltodextrin) mixtures as studied by conventional and saturation-transfer spin-probe e.s.r. spectroscopy	
M. J. G. W. Roozen, M. A. Hemminga and P. Walstra (Wageningen, Netherland)	229
The conformation of 1,6-anhydrolactose and its hexa-acetate in solution A. Rivera-Sagredo and J. Jiménez-Barbero (Madrid, Spain)	239
A molecular modelling study of the distortion of α -cyclodextrin (cyclomaltohexaose) in complexes with guest molecules	
S. P. van Helden, M. J. van Drooge, A. J. Claessens, A. C. A. Jansen, and L. H. M. Janssen (Utrecht, The Netherlands)	251
Synthesis of disaccharides with (1→4)-β glycosidic linkages related to the 4- and 6-sulfates and the 4,6-disulfates of chondroitin M. Zsiška (Oldenburg, Germany) and B. Meyer (Athens, GA, U.S.A.)	261
141. 2515ka (Oldenburg, Germany) and B. Wieyer (Athens, GA, U.S.A.)	201
Synthesis of β -D-GlcA-(1 \rightarrow 3)- β -D-Gal disaccharides with 4- and 6-sulfate groups and 4,6-disulfate groups	
M. Zsiška (Oldenburg, Germany) and B. Meyer (Athens, GA, U.S.A.)	279

Structure of an acidic glycan present in the lipopolysaccharide extract from Serratia marcescens serogroup O18	m the reference strain for	
D. Oxley and S. G. Wilkinson (Hull, Gt. Britain)		293
Structural studies of the Vibrio cholerae O:3 O-antigen polysaccharide T. A. Chowdhury, PE. Jansson, B. Lindberg, J. Lindberg, B. Gu (Stockholm, Sweden)		303
Distinguishing mammalian sialidases by inhibition kinetics with 5-acetamido-2,6-anhydro-3,5-dideoxy-D-glycero-D-galacto-non-2-e urated derivative of N-acetylneuraminic acid	enonic acid, an unsat-	
T. G. Warner (Memphis, TN, U.S.A.), A. Louie (South San Fran Potier (Montreal, Canada), A. Ribeiro (Durham, NC, U.S.A.)		315
Structural analysis of the heptose/hexose region of the lipopolysaccharic K-12 strain W3100	de from Escherichia coli	
O. Holst, U. Zähringer, H. Brade (Borstel, Germany), and A. Zam	ojski (Warsaw, Poland)	323
Notes The synthesis and characterisation of 6-O-L-glycero-D-manno-heptopyrano Z. Pakulski, A. Zamojski (Warsaw, Poland), O. Holst, and U. Zährin		337
Configurational assignment of <i>N</i> -acetylneuraminic acid and analogues <i>via</i> constants S. Prytulla, J. Lauterwein, M. Klessinger, and J. Thiem (Münster,		345
Determination of the activation energy and rate constants for the chair-to- cis-inositol by n.m.r. spectroscopy K. Dill and L. Huang (Clemson, SC, USA)		351
Complexing of sugars and sugar alcohols with metal ions: a comparative chromatography	e study by ion-exchange	
M. M. Hämäläinen and H. Lönnberg (Turku, Finland)		57
Preliminary communication Iodonium ion-assisted glycosylation of alkyl (aryl) 1-thioglycosides: regula and reactivity	ation of stereoselectivity	
H. M. Zuurmond, S. C. van der Laan, G. A. van der Marel, and H. Netherlands)		c1
Author index		c5
Subject index		c7
Contents (Vol. 215)	c	11

